Refine Search

Search Results

Term	Documents
YEAST	186974
YEASTS	35004
(8 AND YEAST).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	127
(L8 and yeast).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	127

Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US Patents OCR Backfile; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletin Database

Search: L9

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Monday, March 16, 2009 Purge Queries Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=AND			
L9	L8 and yeast	127	L9
L8	(katsuyama.in. or arakawa.in. or tokunaga.in. or yammamoto.in.) and (yeast)	127	L8
L7	L6 and yeast	0	L7
L6	changchun adj huapu.as.	22	L6
L5	L4 and respiration	69	L5
L4	(respiration adj yeast) or (deficient adj yeast)	1065	L4
L3	L2 and aspiration	2	L3
L2	L1 and respiration	153	L2

L1	(wang.in. or bao.in. or yu.in.) and yeast	4611	L1

END OF SEARCH HISTORY

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?  e au=katsuyama, i?
Ref   Items  Index-term
E1       15  AU=KATSUYAMA, I
E2       17  AU=KATSUYAMA, I.
E3        0  AU=KATSUYAMA, I?
E4       12  AU=KATSUYAMA, ICHIRO
E5        1  AU=KATSUYAMA, ICHIROU
E6      316  AU=KATSUYAMA, ISAMU
E7       12  AU=KATSUYAMA, ITARU
E8       16  AU=KATSUYAMA, IWAO
E9        4  AU=KATSUYAMA, J
E10      30  AU=KATSUYAMA, J.
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E14      26  AU=KATSUYAMA, JUNJI
E15      12  AU=KATSUYAMA, JYUNJI
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E18       2  AU=KATSUYAMA, KANAKO
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E23      12  AU=KATSUYAMA, KAZUO
E24       1  AU=KATSUYAMA, KEIICHI
E25       1  AU=KATSUYAMA, KEIKO
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?  s e8 and yeast
          16   AU=KATSUYAMA, IWAO
     1317956   YEAST
S1          4   AU='KATSUYAMA, IWAO' AND YEAST

?  e au=arakawa, t?
Ref   Items  Index-term
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E7         1  AU=ARAKAWA, V.
E8         1  AU=ARAKAWA, W.
E9         3  AU=ARAKAWA, WATARU
E10      233  AU=ARAKAWA, Y
E11     2665  AU=ARAKAWA, Y.
E12        1  AU=ARAKAWA, Y. (RESEARCH CENTER FOR ADVANCED SCIE
E13        1  AU=ARAKAWA, Y. ET AL
E14        1  AU=ARAKAWA, Y. ET AL.
E15        1  AU=ARAKAWA, Y. H.
E16       32  AU=ARAKAWA, Y*
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           Enter PAGE for more

? s e1-e2
            0   AU=ARAKAWA, TSUTOMU?
          161   AU=ARAKAWA, TSUYOSHI
S2        161   S E1-E2

? s s2 and yeast
          161   S2
      1317956   YEAST
S3          0   S S2 AND YEAST

? e au=masao, t?
Ref    Items  Index-term
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E2        31  AU=MASAO, T.
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E22        1  AU=MASAOA, P.
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E23         2  AU=MASAOAKA T
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E25         1  AU=MASAOCHIN
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?  s eau=masao, tokunaga?
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  or undefined in one or more files.
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?  e au=tokunaga, masao?
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E3         0  AU=TOKUNAGA, MASAO?
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E15        3  AU=TOKUNAGA, MASAYUKI
E16        6  AU=TOKUNAGA, MASUNORI
E17        5  AU=TOKUNAGA, MAYUMI
E18       11  AU=TOKUNAGA, MICHIKO
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?  s e1-e3
          166   AU=TOKUNAGA, MASAO
            2   AU=TOKUNAGA, MASAO*
            0   AU=TOKUNAGA, MASAO?
S5        168   S E1-E3

?  s s5 and yeast
          168   S5
      1317956   YEAST
S6         30   S S5 AND YEAST

?  e au=yamamoto, tadashi?
Ref    Items  Index-term
E1         7  AU=YAMAMOTO, TADASHI S.
E2         1  AU=YAMAMOTO, TADASHI*
E3         0  AU=YAMAMOTO, TADASHI?
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E5         1  AU=YAMAMOTO, TADASHIO
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E7        36  AU=YAMAMOTO, TADASU
E8         3  AU=YAMAMOTO, TADASUKE
E9         3  AU=YAMAMOTO, TADATERU
E10       21  AU=YAMAMOTO, TADATO
E11      127  AU=YAMAMOTO, TADATOSHI
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E18       16  AU=YAMAMOTO, TAE
E19       26  AU=YAMAMOTO, TAEKA
E20        8  AU=YAMAMOTO, TAEKO
E21       29  AU=YAMAMOTO, TAHEI
E22        1  AU=YAMAMOTO, TAI
E23       44  AU=YAMAMOTO, TAIBO
E24        9  AU=YAMAMOTO, TAIBO (ED)
E25       77  AU=YAMAMOTO, TAICHI
          Enter PAGE for more

?  s e1-e2
            7   AU=YAMAMOTO, TADASHI S.
            1   AU=YAMAMOTO, TADASHI*
S7          8   S E1-E2

?  s s7 and yeast
            8   S7
      1317956   YEAST
S8          0   S S7 AND YEAST

?  s respiration and yeast
Processing
      1142014   RESPIRATION
      1317956   YEAST
S9      14717   S RESPIRATION AND YEAST

?  s s9 and deficient
Processing
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      1239950   DEFICIENT
S10      2217   S S9 AND DEFICIENT

?  s s10 and screen?
Processing
Processing
         2217   S10
      3391121   SCREEN?
S11       109   S S10 AND SCREEN?

?  s s11 and respiration(w)deficient
          109   S11
      1142014   RESPIRATION
      1239950   DEFICIENT
         2386   RESPIRATION(W)DEFICIENT
S12        45   S S11 AND RESPIRATION(W)DEFICIENT

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Duplicate detection is not supported for File 391.
Records from unsupported files will be retained in the RD set.
S13        13   RD  (UNIQUE ITEMS)

?  t s13/3,k/1-13
>>>W:  KWIC option is not available in file(s): 399
 13/3,K/1 (Item 1 from file: 5)  Links
   Fulltext available through:   STIC Full Text Retrieval Options
Biosis Previews(R)
```

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0020623649 Biosis No.: 200800670588
Intersection of RNA Processing and the Type II Fatty Acid Synthesis Pathway in Yeast Mitochondria

Author: Schonauer Melissa S; Kastaniotis Alexander J; Hiltunen J Kalervo; Dieckmann Carol L (Reprint)
Author Address: Univ Arizona, Dept Biochem and Mol Biophys, POB 210106, Tucson, AZ 85721 USA**USA
Author E-mail Address: dieckman@u.arizona.edu
Journal: Molecular and Cellular Biology 28 (21): p 6646-6657 NOV 2008 2008
Item Identifier: doi:10.1128/MCB.01162-08
ISSN: 0270-7306
Document Type: Article
Record Type: Abstract
Language: English
Intersection of RNA Processing and the Type II Fatty Acid Synthesis Pathway in Yeast Mitochondria

Abstract: Distinct metabolic pathways can intersect in ways that allow hierarchical or reciprocal regulation. In a screen of respiration- deficient Saccharomyces cerevisiae gene deletion strains for defects in mitochondrial RNA processing, we found that lack... ...pathway is the sole precursor for lipoic acid synthesis and attachment. The protein component of yeast mitochondrial RNase P, Rpm2, is not modified by lipoic acid in the wild-type strain...

13/3,K/2 (Item 2 from file: 5) Links
Fulltext available through: STIC Full Text Retrieval Options
Biosis Previews(R)
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17372760 Biosis No.: 200300331056
Toxicity of metal ions used in dental alloys: A study in the yeast Saccharomyces cerevisiae.

Author: Yang Hyeong-Cheol; Pon Liza A (Reprint)
Author Address: Department of Anatomy and Cell Biology, Columbia University, 630 West 168th St., P and S 12-425, New York, NY, 10032, USA**USA
Author E-mail Address: lap5@columbia.edu
Journal: Drug and Chemical Toxicology an International Journal for Rapid Communication 26 (2): p 75-85 May 2003 2003
Medium: print
ISSN: 0148-0545
Document Type: Article
Record Type: Abstract
Language: English
Toxicity of metal ions used in dental alloys: A study in the yeast Saccharomyces cerevisiae.

Abstract: ...In this study, we investigated the effect of metal ions on growth of the budding yeast, Saccharomyces cerevisiae, and on the morphology and function of yeast mitochondria. Moreover, we tested whether mitochondrial respiratory activity contributes to metal toxicity. Metal ions affected yeast cell growth. The toxicity of metal ions to yeast cells, ranked in decreasing order are as follows: Hg > Ag > Au > Cu, Ni, Co, Zn... ...respectively. None of the toxic metal ions resulted in loss of mitochondrial respiratory activity. However, respiration- deficient rho0 cells appeared to be resistant to Ag ion, but not to Hg and Au... ...Furthermore, at high concentrations, Ag ion caused morphological changes in mitochondria. These studies indicate that yeast may be used as a model system to screen for toxic effect of metals ions from dental alloys, and that oxidation activity in mitochondria...

13/3,K/3 (Item 3 from file: 5) Links
Fulltext available through: STIC Full Text Retrieval Options
Biosis Previews(R)
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16961532 Biosis No.: 200200555043
Merging mitochondria matters. Cellular role and molecular machinery of mitochondrial fusion

Author: Westermann Benedikt (Reprint)
Author Address: Institut fuer Physiologische Chemie der Universitaet Muenchen, Butenandtstrasse 5, D-81377, Muenchen, Germany**Germany
Journal: EMBO Reports 3 (6): p 527-531 June, 2002 2002
Medium: print
ISSN: 1469-221X
Document Type: Article; Literature Review
Record Type: Abstract
Language: English

Abstract: Fusion is essential for mitochondrial function in a great variety of eukaryotic cell types. Yeast cells defective in mitohondrial fusion are respiration-deficient, human cells use complementation of fused mitochondria as a defence against the accumulation of oxidative... ...evolutionarily conserved large GTPase in the outer membrane is essential for mitochondrial fusion, and genetic screens in yeast are revealing an increasing number of additional important genes. Mechanistic studies have provided the first...
DESCRIPTORS:
Organisms: ...yeast (Fungi
Organisms: Parts Etc:
Methods & Equipment: genetic screening--
Geographical Name:

13/3,K/4 (Item 4 from file: 5) Links
Fulltext available through: STIC Full Text Retrieval Options
Biosis Previews(R)
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15804067 Biosis No.: 200000522380
No mutagenic or recombinogenic effects of mobile phone fields at 900 MHz detected in the yeast Saccharomyces cerevisiae

Author: Gos Pascal; Eicher Bernhard; Kohli Jurg; Heyer Wolf-Dietrich (Reprint)
Author Address: Section of Microbiology, University of California, Davis, One Shields Avenue, Davis, CA, 95616, USA**USA
Journal: Bioelectromagnetics 21 (7): p 515-523 October, 2000 2000
Medium: print
ISSN: 0197-8462
Document Type: Article
Record Type: Abstract
Language: English
No mutagenic or recombinogenic effects of mobile phone fields at 900 MHz detected in the yeast Saccharomyces cerevisiae

Abstract: Both actively growing and resting cells of the yeast Saccharomyces cerevisiae were exposed to 900-MHz fields that closely matched the Global System for... ...specific forward mutation assay at CAN1 and a wide-range assay measuring the induction of respiration-deficient (petite) clones that have lost their mitochondrial function. In addition, two further assays measured the... ...possible effects on genomic stability: First, an intrachromosomal, deletion-formation assay previously developed for genotoxic screening; and second, an intragenic recombination assay in the ADE2 gene. Fluctuation tests failed to detect...
DESCRIPTORS:

Methods & Equipment: ...genotoxic screening--... ...screening method
Geographical Name:
Miscellaneous Terms: Concept Codes: ...respiration; ... ...yeast mutation rates

13/3,K/5 (Item 5 from file: 5) Links
Fulltext available through: STIC Full Text Retrieval Options
Biosis Previews(R)
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11280242 Biosis No.: 199293123133
STRUCTURE AND FUNCTION OF MRP20 AND MRP49 THE NUCLEAR GENES FOR TWO PROTEINS OF THE 54S SUBUNIT OF THE YEAST MITOCHONDRIAL RIBOSOME

Author: FEARON K (Reprint); MASON T L
Author Address: DEP BIOCHEM, PROGRAM MOLECULAR CELLULAR BIOL, UNIV MASSACHUSETTS, AMHERST, MASSACHUSETTS 01003, USA**USA
Journal: Journal of Biological Chemistry 267 (8): p 5162-5170 1992
ISSN: 0021-9258
Document Type: Article
Record Type: Abstract
Language: ENGLISH
...MRP20 AND MRP49 THE NUCLEAR GENES FOR TWO PROTEINS OF THE 54S SUBUNIT OF THE YEAST MITOCHONDRIAL RIBOSOME

Abstract: ...large subunit of the mitochondrial ribosome in Saccharomyces cerevisiae. Their genes were identified through immunological screening of a genomic library in the expression vector .lambda.gt11. Nucleotide sequencing revealed that MRP49... ...of mutations in essential genes for mitochondrial translation. Inactivation of MRP49 caused a cold-sensitive respiration- deficient phenotype, indicating that MRP49 is not an essential ribosomal protein. The mrup49 mutants were defective... ...the nonpermissive temperature. With the results presented here, there are now published sequences for 14 yeast mitochondrial ribosomal proteins, only five of which bear discernable relationships to eubacterial ribosomal proteins.

13/3,K/6 (Item 1 from file: 24) Links
Fulltext available through: STIC Full Text Retrieval Options
CSA Life Sciences Abstracts
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0002323543 IP Accession No: 5379117
The mitochondrial cytochrome c peroxidase Ccp1 of Saccharomyces cerevisiae is involved in conveying an oxidative stress signal to the transcription factor Pos9 (Skn7)

Charizanis, C; Juhnke, H; Krems, B; Entian, K-D Institut fur Mikrobiologie, Johann Wolfgang Goethe-Universitat Frankfurt, Biozentrum, Niederursel, Marie-Curie-Strasse 9, D-60439 Frankfurt am Main, Germany, [mailto:krems@em.uni-frankfurt.de]
Molecular and General Genetics , v 262 , n 3 , p 437-447 , 1999
Publication Date: 1999
Publisher: Springer-Verlag (Berlin), Heidelberger Platz 3 Berlin 14197 Germany, [mailto:subscriptions@springer.de]

Document Type: Journal Article
Record Type: Abstract
Language: English
Summary Language: English
ISSN: 0026-8925
Electronic Issn: 1432-1874; 1432-1874
File Segment: Nucleic Acids Abstracts; Algology, Mycology & Protozoology Abstracts (Microbiology C)

Abstract:

...which are involved in the oxygen-dependent activation of the Gal4-Pos9 hybrid protein we screened for mutants that failed to induce the heterologous test system upon oxidative stress (fap mutants for factors activating Pos9). We isolated several respiration-deficient and some respiration-competent mutants by this means. We selected for further characterization only those mutants which also displayed an oxidative-stress-sensitive phenotype. One of the respiration- deficient mutants (complementation group fap6) could be complemented by the ISM1 gene, which encodes mitochondrial isoleucyl tRNA synthetase, suggesting that respiration competence was important for signalling of oxidative stress. In accordance with this notion a rho0 strain and a wild-type strain in which respiration had been blocked (by treatment with antimycin A or with cyanide) also failed to activate Gal4-Pos9 upon imposition of oxidative stress. Another mutant, fap24, which was respiration-competent, could be complemented by CCP1, which encodes the mitochondrial cytochrome c peroxidase. Mitochondrial cytochrome...

Descriptors: Oxidative stress; Cyanide; Isoleucine-tRNA ligase; Transcription factors ; Complementation; Reporter gene; Respiration; Mitochondria; Pos9 protein; Ccp1 protein; ISM1 gene; antimycin A; Skn7 protein; cytochrome-c peroxidase; Saccharomyces...
Identifiers: budding yeast

13/3,K/7 (Item 1 from file: 34) Links
Fulltext available through: STIC Full Text Retrieval Options
SciSearch(R) Cited Ref Sci
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13589951 Genuine Article#: 895PD No. References: 86
The importance of mutation, then and now: studies with yeast cytochrome c

Author: Sherman F (REPRINT)
Corporate Source: Univ Rochester,Sch Med, Dept Biochem & Biophys,Box 712/Rochester//NY/14642 (REPRINT); Univ Rochester,Sch Med, Dept Biochem & Biophys,Rochester//NY/14642 (fred sherman@urmc.rochester.edu)
Journal: MUTATION RESEARCH-REVIEWS IN MUTATION RESEARCH , 2005 , V 589 , N1 (JAN) , P 1-16
ISSN: 1383-5742 Publication date: 20050100
Publisher: ELSEVIER SCIENCE BV , PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)
The importance of mutation, then and now: studies with yeast cytochrome c

Abstract: ...initiation mutants, allowing the early cloning of the gene. A method was developed for transforming yeast directly with synthetic oligonucleotides, resulting in the convenient production of CYC1 mutants with defined sequences... ...nucleus, and on N-terminal acetylation stems from properties of CYC1 mutants isolated in early screens more than a decade ago. (C) 2004 Elsevier B.V. All rights reserved.
Identifiers-- ...AMINO-ACID REPLACEMENTS; ALPHA-TERMINAL ACETYLTRANSFERASE; RESPIRATION-DEFICIENT MUTANTS; CYC1 MESSENGER-RNA; SACCHAROMYCES-CEREVISIAE; SYNTHETIC OLIGONUCLEOTIDES; ISO-1-CYTOCHROME C; BAKERS-YEAST; IN-VIVO; METHIONINE AMINOPEPTIDASE

13/3,K/8 (Item 2 from file: 34) Links
Fulltext available through: STIC Full Text Retrieval Options
SciSearch(R) Cited Ref Sci
(c) 2009 The Thomson Corp. All rights reserved.
13387935 Genuine Article#: 874ZN No. References: 126
Mitochondrial genomics and proteomics

Author: Schonauer MS; Dieckmann CL (REPRINT)
Corporate Source: Univ Arizona,Dept Biochem & Mol Biophys,Tucson//AZ/85721 (REPRINT); Univ Arizona,Dept Biochem & Mol Biophys,Tucson//AZ/85721; Univ Arizona,Dept Mol & Cellular Biol,Tucson//AZ/85721 (dieckman@u.arizona.edu)

Journal: CURRENT GENOMICS , 2004 , V 5 , N7 (NOV) , P 575-588
ISSN: 1389-2029 Publication date: 20041100
Publisher: BENTHAM SCIENCE PUBL LTD , EXECUTIVE STE Y26, PO BOX 7917, SAIF ZONE, 1200 BR SHARJAH, U ARAB EMIRATES
Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)
Abstract: Factors involved in mitochondrial biogenesis and function have been studied classically via mutagenesis screens and subsequent genetic and biochemical analyses. The recent advent of high-throughput technologies has provided... ...will describe past and present genomic and proteomic methods used to study mitochondria both in yeast and mammalian cells, their advantages and limitations, and the current knowledge of the number of...
Identifiers-- ...RESPIRATION-DEFICIENT MUTANTS; CONSERVED DODECAMER SEQUENCE; CYTOCHROME-C-OXIDASE; SACCHAROMYCES-CEREVISIAE; GENE-EXPRESSION; MESSENGER-RNA; NUCLEAR GENE

13/3,K/9 (Item 3 from file: 34) Links
SciSearch(R) Cited Ref Sci
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01557284 Genuine Article#: HH747 No. References: 58
STRUCTURE AND FUNCTION OF MRP20 AND MRP49, THE NUCLEAR GENES FOR 2 PROTEINS OF THE 54-S-SUBUNIT OF THE YEAST MITOCHONDRIAL RIBOSOME

Author: FEARON K; MASON TL
Corporate Source: UNIV MASSACHUSETTS,DEPT BIOCHEM/AMHERST//MA/01003; UNIV MASSACHUSETTS,DEPT BIOCHEM/AMHERST//MA/01003; UNIV MASSACHUSETTS,PROGRAM MOLEC & CELLULAR BIOL/AMHERST//MA/01003
Journal: JOURNAL OF BIOLOGICAL CHEMISTRY , 1992 , V 267 , N8 (MAR 15) , P 5162-5170
Language: ENGLISH Document Type: ARTICLE (Abstract Available)
...AND MRP49, THE NUCLEAR GENES FOR 2 PROTEINS OF THE 54-S-SUBUNIT OF THE YEAST MITOCHONDRIAL RIBOSOME

Abstract: ...large subunit of the mitochondrial ribosome in Saccharomyces cerevisiae. Their genes were identified through immunological screening of a genomic library in the expression vector lambda-gt11. Nucleotide sequencing revealed that MRP49... ...of mutations in essential genes for mitochondrial translation. Inactivation of MRP49 caused a cold-sensitive respiration- deficient phenotype, indicating that MRP49 is not an essential ribosomal protein. The mrp49 mutants were defective... ...the nonpermissive temperature. With the results presented here, there are now published sequences for 14 yeast mitochondrial ribosomal proteins, only five of which bear discernable relationships to eubacterial ribosomal proteins.

Identifiers--
Research Fronts: ...FASCIANS CLONING VECTORS; ESCHERICHIA-COLI CHROMOSOME; PRECISE IDENTIFICATION)
90-2893 002 (GENE TARGETING; HOMOLOGOUS RECOMBINATION; YEAST NUCLEAR-FUSION; EMBRYONIC STEM-CELLS)
90-1410 001 (MITOCHONDRIAL PROTEIN IMPORT; DEFICIENCY IN 2 YEAST COENZYME-Q MUTANTS; STRUCTURAL GENE ENCODING HEXAPRENYL PYROPHOSPHATE SYNTHETASE)
90-4609 001 (5S RIBOSOMAL-RNA...
Cited References:

13/3,K/10 (Item 1 from file: 73) Links
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0070167499 EMBASE No: 1974169087
A synthesis of labeled ethidium bromide

De Nobrega Bastos R.; Mahler H.R.
Dept. Chem., Indiana Univ., Bloomington, Ind. 47401, United States

Corresp. Author/Affil: : Dept. Chem., Indiana Univ., Bloomington, Ind. 47401, United States

Archives of Biochemistry and Biophysics (ARCH. BIOCHEM. BIOPHYS.) January 1, 1974 , 160/2 (643-646)
CODEN: ABBIA ISSN: 0003-9861
Document Type: Journal ; Article Record Type: Abstract
Language: English

...its absorption spectra (uv, visible, ir), chromatographic behavior, and mutagenic effectiveness in the induction of respiration deficient cell lines in baker's yeast.
Medical Descriptors:
* drug screening; *drug synthesis; *pharmacology

13/3,K/11 (Item 1 from file: 370) Links
Science
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00509183 (USE 9 FOR FULLTEXT)
The Machinery of Mitochondrial Inheritance and Behavior

Yaffe, Michael P.<CRF RID="C1">
The author is in the Department of Biology, University of California, San Diego, La Jolla, CA 92093-0347, USA.
Science Vol. 283 5407 pp. 1493
Publication Date: 3-05-1999 (990305) Publication Year: 1999
Document Type: Journal ISSN: 0036-8075
Language: English
Section Heading: REVIEWS
Word Count: 4200 (THIS IS THE FULLTEXT)

Text:

...approaches. The first molecules mediating mitochondrial inheritance were discovered through isolation and analysis of mutant yeast cells that displayed conditional defects in mitochondrial distribution and morphology (B13) . More recently, proteins facilitating...
...types including mammalian neurons, sperm cells, and cultured fibroblasts as well as in the fission yeast Schizosaccharomyces pombe and the protozoan Acanthamoeba castellanii (B18) (B24) (B25) (B26) . Involvement of microtubules was...microtubule drugs, mitochondrial movement in neuronal axons became dependent on actin filaments (B29) . In the yeast Saccharomyces cerevisiae, a fraction of the mitochondrial tubules appears to colocalize with actin cables (B40...

...mutations in the single actin gene cause abnormal mitochondrial distribution and morphology (B40) . Additionally, isolated yeast mitochondria bound to actin filaments and exhibited actin-based motility in an in vitro assay...

...these actin cables, but mitochondrial transport remains normal (B40) (B43) . Furthermore, mutations in the five yeast myosin genes have no effect on mitochondrial inheritance (B42) (B44) . Further clarification of actin's...to DNM1, a gene encoding a dynamin-like protein most closely related to Drp1 (B47) . Yeast cells expressing Dnm1p mutated in the conserved GTP-binding site also display collapsed mitochondria. Wild...

...protein sequence provides few hints as to its molecular function, but the similarity of the yeast mutant phenotype to that caused by mutations in dnm1 suggests that these two proteins may...insights into the function of the fuzzy onions protein have emerged from studies of the

yeast homolog, Fzo1p (B52) (B53) . Mutations in Fzo1p caused fragmentation of mitochondrial tubules and eventual loss of mitochondrial DNA. Mitochondrial fusion, which normally follows the mating of two yeast cells, did not occur when Fzo1p was defective or absent, providing direct evidence of a...

...Mitochondrial Inheritance Mutants In contrast to animal cells, the yeast S. cerevisiae proliferates by a budding process in which a mother cell produces a daughter...

...of mitochondria and other organelles into the developing bud (B55) (Fig. 2). The analysis of yeast mutants defective in this transport process has led to the identification of proteins that facilitate...

...The first mutants affecting mitochondrial inheritance were isolated by microscopically screening collections of temperature-sensitive strains for cells that failed to transport mitochondria into daughter buds ...

...mitochondrial shape, and the mutants were named mdm for mitochondrial distribution and morphology. Although other yeast mutants that lose mitochondrial DNA and become respiration-deficient still retain mitochondrial compartments and remain viable (B56) , buds of mdm mutants devoid of mitochondria...
...in vitro into 10-nm-diameter filaments closely resembling IFs in animal cells (B59) . In yeast cells, Mdm1p localizes to punctate structures throughout the cytoplasm, and under conditions leading to the...classical ultrastructural features including double membranes and inner membrane cristae and remain partially competent for respiration, but are defective for division and inheritance by daughter buds. Mdm10p, Mmm1p, and Mdm12p are...

...mitochondrial distribution and morphology. Protein phosphorylation may also regulate mitochondrial inheritance, as mitochondrial transmission to yeast buds is delayed by mutations in the gene encoding serine-threonine phosphatase Ptc1p (B71...KIF5B, Mouse; fly Microtubules/ Mitochondrial aggregation near KIF1B; KLP67A mitochondrial surface nucleus

Drp1; Dnm1p	Human; yeast	Cytoplasm	Mitochondrial aggregation, reduced lateral distribution and/or branching
CluA; Clu1p	Slime mold; yeast	Cytoplasm	Mitochondrial aggregation, reduced lateral distribution and/or branching
Mdm1p	Yeast	Cytoplasm	Defective mitochondrial transmission to buds; fragmentation of tubules
Mdm20p	Yeast	Cytoplasm	Defective mitochondrial transmission to buds
Mdm14p	Yeast	Cytoplasm	Defective mitochondrial transmission to buds; mitochondrial aggregation
Rsp5p	Yeast	Cytoplasm	Defective mitochondrial transmission to buds; mitochondrial aggregation
Mdm10p	Yeast; fungus	Mitochondrial outer membrane	Defective mitochondrial transmission to buds; giant spherical mitochondria
Mmm1p	Yeast	Mitochondrial outer membrane	Defective mitochondrial transmission to buds; giant spherical mitochondria
Mdm12p	Yeast	Mitochondrial	Defective mitochondrial

		outer membrane	transmission to buds; giant spherical mitochondria
Mgm1p	Yeast	Mitochondrial outer membrane	Defective mitochondrial transmission to buds; mitochondrial aggregation
Fuzzy onions, Fzo1p	Fly; yeast	Mitochondrial outer membrane	Aberrant mitochondrial fragmentation of tubules

End Table: Columns 1...

...Table: Columns 5 - 6 of 6 tblend

Figure F2
Caption: Mitochondrial network in the budding yeast S. cerevisiae. Wild-type yeast cells were engineered to express green fluorescent protein fused to a mitochondrial targeting sequence (the...

References and Notes:
...by Strathern, J. N., Jones, E. W., Broach, J. R., The Molecular Biology of the Yeast Saccharomyces cerevisiae, vol. 1 1981, 471504 Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY...

...TEXT:
Saccharomyces cerevisiae gene deletion strains for defects in mitochondrial RNA processing, we found that lack of any enzyme in the mitochondrial fatty acid type II biosynthetic pathway (FAS II) led to inefficient 5 ' processing...

...
Rpm2, is not modified by lipoic acid in the wild-type strain, and it is imported in FAS II mutant strains. Thus, a product of the FAS II pathway is required...
...
Cellular Biology (Intersection of RNA Processing and the Type II Fatty Acid Synthesis Pathway in Yeast Mitochondria. Molecular and Cellular Biology , 2008;28(21):6646-6657). For more information, contact C...

13/3,K/13 (Item 1 from file: 357) Links
Derwent Biotech Res.
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0306690 DBA Accession No.: 2003-08475 PATENT
Identifying secondary target site in telomerase pathway, in which mutations in the secondary target site provide unviable host cells when the telomerase gene is overexpressed, useful for screening drugs for cancer expressed sequence tag and transgenic mouse for use in gene therapy and drug screening

Patent Assignee: HUTCHINSON CANCER RES CENT FRED 2002
Patent Number: WO 200290588 Patent Date: 20021114 WPI Accession No.: 2003-111990 (200310)
Priority Application Number: WO 200027430 Application Date: 20001003
National Application Number: WO 2000US27430 Application Date: 20001003
Language: English
...secondary target site provide unviable host cells when the telomerase gene is overexpressed, useful for screening drugs for cancer expressed sequence tag and transgenic mouse for use in gene therapy and drug screening

Untitled

Abstract: ...downregulation, elimination or disruption of (II) gives rise to senescence or synthetic lethality; and (6) screening for drugs involves providing one or more eukaryotic cells capable of telomerase overexpression, which one... ...precursor, AAD10 or their combinations. (M1) further involves using (I), or its lethal mutations, to screen for a drug or drug candidate which comprises a polypeptide, oligonucleotide, polysaccharide, or small molecule... ...body weight/day. EXAMPLE - Mutants which were inviable in the presence of telomerase overexpression in yeast or vice versa were screened. The yeast strain used contained the expressed sequence tag (EST)1, EST2 and TEL1 genes under the...containing media, but grew on dextrose and glycerol-containing media were selected. Colonies formed by respiration-deficient cells did not grow on glycerol and thus were omitted from further analysis. The isolates...

E.C. Numbers:

Descriptors: telomerase pathway secondary target site mutation det., drug screening, transgenic mouse, EST1, EST2, EST3, TLC1, embZ35904, gbU14595, embZ35905, dbjD28120, gbL24113, embX76992, gbAC005476.3, gbU53340 ...